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The official journal of the European Operations Management Association

PUBLISHER
Chris Wiles

ISSN 0144-3577

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60/62 Toller Lane
Bradford
West Yorkshire
England BD8 9BY
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Printed by Staples Printers,
Neptune Close, Medway City Estate,
Frindsbury, Kent ME2 4LT

INTERNATIONAL JOURNAL OF
OPERATIONS & PRODUCTION MANAGEMENT

ISSN 0144-3577

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Handbook of engineering management (edited by Denis Lock) (book review by R. Wild) 10(3) 1990: 72

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(A) PC-based spreadsheet support system for the newsboy inventory control problem (T.N. Al-Faraj, J.A. Al-Zayer and A.S. Alidi) 11(10) 1991: 58-63

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(A) multiple objective model for a just-in-time manufacturing system environment (G.C. Kim and M.J. Schniederjans) 13(12) 1993: 47-61

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(A) critique of the literature on just-in-time manufacturing (S.K. Goyal and S.G. Deshmukh) 12(1) 1992: 18-28

Production/operations management: research process and content during the 1980s (A. Neely) 13(1) 1993: 5-18

(The) UK Department of Trade and Industry National Quality Campaign: 1983 to January 1989 (D.M. Lascelles and B.G. Dale) (monograph) 9(6) 1989: 1-46

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Inventory control and inflation: a review (A. Wirth) 9(3) 1989: 67-72

(A) review of literature relating to JIT (A.S. Sohal, A.Z. Keller and R.H. Fouad) 9(3) 1989: 15-25

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Financial factors in plant location decisions: a case study in the Greek metal industry (G.P. Artikis) 13(8) 1993: 58-71

(A) methodology for the location of facility ingress/egress points (J.T. Luxhoj) 11(5) 1991: 6-21

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(A) logistics-based inventory model for JIT procurement (R.V. Ramasesh) 13(6) 1993: 44-58

(A) management guide to logistics engineering (K. Beale) (book review by R. Wild) 10(4) 1990: 74-5

Rethinking integrated concept foundations: a just-in-time argument for linking production/operations and logistics management (R.A. Novack, L.M. Rinehart and S.A. Fawcett) 13(6) 1993: 31-43

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(A) review of multi-stage lot-sizing models (Y.P. Gupta and Y. Keung) 10(9) 1990: 57-73

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(A) new contingent critical-ratio technique (C-J. Liao) 12(6) 1992: 66-74

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Global manufacturing strategies and practices: a study of two industries (S.T. Young, K.K. Kwong, C. Li and W. Fok) 12(9) 1992: 5-17

Manufacturing practices in the Commonwealth of Independent States (A. Ardishvili and A.V. Hill) 13(10) 1993: 60-75

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Decision systems for inventory and management and production planning (2nd ed.) (E.A. Silver and R. Peterson) (book review by R. Wild) 11(10) 1991: 69-70

Evaluating a computerized maintenance management system (A. Raouf, Z. Ali and S.O. Duffuaa) 13(3) 1993: 38-48

Handbook of engineering management edited by Denis Lock (book review by R. Wild) 10(3) 1990: 72

Implementing industrial engineering policies: a systems management approach (K.B. Chung) 10(1) 1990: 67-77

Implementing integrating technologies: developing managerial integration for CAD/CAM (D. Twigg, C.A. Voss and G.M. Winch) 12(7/8) 1992: 76-91

(An) integrated model for demand-output management in service organizations: implications for future research (M.J. Showalter and J.D. White) 11(1) 1991: 51-67

Lessons from Nissan's British suppliers (C.H. Carr and T.A. Truesdale) 12(2) 1992: 49-57

Management and new production systems (edited by K. Ferdows and C. Karlsson) (special issue) 10(2) 1990: 1-131

Management and new production systems 1992 (edited by C. Karlsson and S. Rubenowitz) (special issue) 12(7/8) 1992: 1-212

Management for engineers (O.P. Kharbanda and E.A. Stallworthy) (monograph) 10(6) 1990: 1-91

Management of uncertainty in AMT implementation: the case of FMS (P. Lindberg) 12(7/8) 1992: 57-75

Managing the introduction of expert systems (D.B. Candlin and S. Wright) 12(1) 1992: 46-59

(The) new roles of management in plants with an advanced CNC-technology (S. Rubenowitz, A. Olsson and B. Steen) 10(2) 1990: 26-36

Productivity management of indirect labour through variable work measurement and control (J.A. Wu and N.L. Wu) 11(8) 1991: 48-58

Quality control information systems in manufacturing: considerations and concerns for management (B. Lin) 11(1) 1991: 41-50

(The) role of management in production units with autonomous work groups (S. Rubenowitz) 12(7/8) 1992: 103-16

Strategy and the shopfloor: a one-way initiative? (T.A.J. Nicholson) 11(3) 1991: 8-20

Technological competence, technology aversion and strategic manufacturing competitiveness (J.G. Wacker) 9(3) 1989: 39-47

Towards a unified theory of strategic manufacturing management (M.T. Sweeney) 11(8) 1991: 6-22

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Why take the stocks out? Britain vs Japan (K. Williams, J. Williams and C. Haslam) 9(8) 1989: 91-105

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Participative business modelling to support strategic decision making in operations – a case study (H. Akkermans) 13(10) 1993: 34-48

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Interactive services operations: the relationships among information, technology and exchange transactions on the quality of the customer-contact interface (L.M. Delene and D.M. Lyth) 9(5) 1989: 24-32

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Drum-buffer-rope and buffer management: impact on production management study and practices (S.C. Gardiner, J.H. Blackstone Jr and L.R. Gardiner) 13(6) 1993: 68-78

Efficiency of UK engineering production management systems, part II: a methodology for improvement (J.S. Oakland and R.M. Wynne) 11(2) 1991: 14-26

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Management for engineers (O.P. Kharbanda and E.A. Stallworthy) (monograph) 10(6) 1990: 1-91

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Tracking the personal values and goal commitment of production and quality control managers (W.A. Hailey, E.J. Ryan Jr and C.K. Woodruff) 11(2) 1991: 41-8

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(The) new roles of management in plants with an advanced CNC-technology (S. Rubenowitz, A. Olsson and B. Steen) 10(2) 1990: 26-36

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Activity-based costing in non-standard route manufacturing (L. Zhuang and G. Burns) 12(3) 1992: 38-60. Erratum 12(5) 1992: 68

(The) adoption of Japanese manufacturing management techniques in Korean manufacturing industry (C.Y. Lee) 12(1) 1992: 66-81

Advanced manufacture and services: common issues – common approaches (D.K. Macbeth and G. Southern) 9(5) 1989: 5-14

Advanced manufacture and services: common issues – common approaches (edited by D.K. Macbeth and G. Southern) (special issue) 9(5) 1989: 1-87

Application of goal programming for capacity waste minimization (S.S. Dewan and V.K. Agrawal) 9(3) 1989: 26-38

Applying service concepts in manufacturing (C. Voss) 12(4) 1992: 93-9

Assignment model formulation of the machine cell formation problem in cellular manufacturing (O.F. Offodile) 13(10) 1993: 49-59

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Difficulties of just-in-time implementation: a classification scheme (F. Safayeni, L. Purdy, R. van Engelen and S. Pal) 11(7) 1991: 27-36

Equipment investment decision analysis in cellular manufacturing (B.K. Ghosh) 10(7) 1990: 5-20

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FMS implementation management: promise and performance (H. Boer, M. Hill and K. Krabbendam) 10(1) 1990: 5-20

Generic manufacturing cell control (I.T. Franks, M. Loftus and N.T.A. Wood) 11(4) 1991: 20-32

(A) goal-oriented productivity index for manufacturing systems (K.F. Matta) 9(4) 1989: 66-76

Human-machine function allocation in manufacturing systems: a review (S.L. Johnson and O.F. Offodile) 11(6) 1991: 17-26

Impact of Advanced Manufacturing Technology on industrial relations: a comparative study (Y.P. Gupta and M.D. Yakimchuk) 9(3) 1989: 4-14

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Implications of inbound lead time variability for just-in-time manufacturing (S.R. Swenseth and F.B. Buffa) 11(7) 1991: 37-48

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(An) integrative model of Japanese manufacturing techniques (J.S. Chan, D.A. Samson and A.S. Sohal) 10(9) 1990: 37-56

Is time a competitive weapon among manufacturing firms? (E.A. Tunc and J.N.D. Gupta) 13(3) 1993: 4-12

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JIT manufacturing systems: use and application in Australia (B. Clarke and L. Mia) 13(7) 1993: 69-82

Just-in-time: the issue of implementation (D. Harber, D.A. Samson, A.S. Sohal and A. Wirth) 10(1) 1990: 21-30

(A) knowledge-based simulation system for manufacturing scheduling (S. Palaniswami and L. Jenicke) 12(11) 1992: 4-14

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Management and new production systems (edited by K. Ferdows and C. Karlsson) (special issue) 10(2) 1990: 1-131

(The) managerial challenges of integrated manufacturing (C.A. Voss) 9(5) 1989: 33-8

(The) manufacturing advantage – achieving competitive manufacturing operations (N. Slack) (book review by R. Wild) 12(1) 1992: 82-3

Manufacturing assembly handbook (B. Lotter) (book review by B. Griffiths) 10(4) 1990: 75-6

Manufacturing competence and business performance: a framework and empirical analysis (J.S. Kim and P. Arnold) 13(10) 1993: 4-25

(A) manufacturing cost model for computer-integrated manufacturing systems (D.G. Dhavale) 10(8) 1990: 5-18

Manufacturing cost modelling for electrical interconnections (N.S. Ong, L.E.N. Lim and K.T. Yeo) 13(2) 1993: 63-75

Manufacturing management practices in Australia (edited by A.S. Sohal and D. Samson) (special issue) 13(7) 1993: 1-92

Manufacturing planning and control systems (2nd ed.) (T.E. Vollmann, W.L. Berry and D.C. Whybark) (book review by Bin Wu) 9(7) 1989: 79

Manufacturing practices in the Commonwealth of Independent States (A. Ardishvili and A.V. Hill) 13(10) 1993: 60-75

Market orientedness of improvement programmes in manufacturing: results from field study research (D.J. Draaijer) 12(7/8) 1992: 24-40

Modelling and analysis of just-in-time manufacturing systems: a review (N. Singh and J.K. Brar 12(2) 1992: 3-14

Modular system design and control for flexible assembly (S. Rajput and D. Bennett) 9(7) 1989: 17-29

(A) multiple objective model for a just-in-time manufacturing system environment (G.C. Kim and M.J. Schniederjans) 13(12) 1993: 47-61

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OPTimizing production's potential (M. Wheatley) 9(2) 1989: 38-44

Organizing for manufacturing innovation: the case of flexible manufacturing systems (H. Boer and K. Krabbendam) 12(7/8) 1992: 41-56

Performance measurement revisited (S.A. Blenkinsop and N. Burns) 12(10) 1992: 16-25

Production planning and scheduling for seasonal demand (G. Buxey) 13(7) 1993: 4-21

Production processes and organizational policies (S. Wathen) 13(1) 1993: 56-70

Quality control information systems in manufacturing: considerations and concerns for management (B. Lin) 11(1) 1991: 41-50

Repetitive manufacturing production planning (R.A. Gessner) (book review by R. Wild) 9(3) 1989: 64

Requirements for smaller companies in integrated manufacturing (L. Brennan, F. Finnan and M.E.J. O'Kelly) 10(7) 1990: 57-68

Simulating availability in a manufacturing plant (R.P. Mohanty) 9(7) 1989: 59-71

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Stock reduction in manufacturing (R.H. Hollier and C. Cooke) (book review by R. Wild) 13(4) 1993: 75

Uniform assembly line balancing with stochastic task times in just-in-time manufacturing (D. Shin and H. Min) 11(8) 1991: 23-34

(The) use of IDEFo to link design and manufacture in a CIM environment (G.J. Colquhoun, J.D. Gamble and R.W. Baines) 9(4) 1989: 48-65

(The) use of microcomputer-based simulation models in the teaching of operations management (D.J. Smith) 10(5) 1990: 5-14

Use of the analytic hierarchy process for selecting automated manufacturing systems (R.P. Mohanty and S. Venkataraman) 13(8) 1993: 45-57

Value-adding performance measurement: a time-based approach (B. Barker) 13(5) 1993: 33-40

Work in arc-welding stations with high complexity (K. Nonås, J. Johansson and G. Lindén) 10(2) 1990: 37-46

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What MAP means to the production manager (D. Saunders) 9(2) 1989: 58-68

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(A) case study of the typical issues involved in quality improvement (F.J. Instone and B.G. Dale) 9(1) 1989: 15-26

(The) competitive characteristics of Scottish manufacturing companies (W.N. Shaw, A.H. Clarkson and M.A. Stone) 12(6) 1992: 20-9

Computer-integrated manufacturing (CIM): redefining the manufacturing firm into a global service business (D. Lei and J.D. Goldhar) 11(10) 1991: 5-18

Despatching and dynamic machine loading in a wire rope factory: a case study (P.G. Awate, D.L. van Oudheusden, S. Dechawongsuwan and P. Yenradee) 10(3) 1990: 61-70

EDI implementation in JIT and non-JIT manufacturing firms: a comparative study (S. Banerjee and D.Y. Golhar) 13(3) 1993: 25-37

Expert advice for JIT implementation (K. Fiedler, J.E. Galletly and J. Bicheno) 13(6) 1993: 23-30

Financial justification of JIT implementation (R.A. Inman and S. Mehra) 13(4) 1993: 32-9

Implementation of just-in-time systems in US manufacturing firms (J.H. Im and S.M. Lee) 9(1) 1989: 5-14

Is time a competitive weapon among manufacturing firms? (E.A. Tunc and J.N.D. Gupta) 13(3) 1993: 4-12

JIT manufacturing industry: analysis and a methodology for implementation (A.S. Sohal L. Ramsay and D. Samson) 13(7) 1993: 22-56

Just-in-time: a United States-United Kingdom comparison (T. Billesbach, A. Harrison and S. Croom-Morgan) 11(10) 1991: 44-57

Productivity management in India: a Delphi study (P.K. Ray and S. Sahu) 10(5) 1990: 25-51

(A) recent development of the integrated manufacturing system: a hybrid of MRP and JIT (C.Y. Lee) 13(4) 1993: 3-17

Responsibilities and activities of Singaporean production managers (T-S. Tan) 10(3) 1990: 20-7

(The) usage of computer-integrated manufacturing technology within manufacturing organizations in the North-East of England (W.M. Walker) 9(7) 1989: 45-58

Value-adding performance measurement: a time-based approach (B. Barker) 13(5) 1993: 33-40

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MANUFACTURING STRATEGY

Changing manufacturing strategy: some approaches and experiences (N.J. Kinnie, R.V.W. Staughton and E.H. Davies) 12(7/8) 1992: 92-102

Comparative logistics and production costs for global manufacturing strategy (J. Scully and S.E. Fawcett) 13(12) 1993: 62-78

(A) comparative study of push and pull production planning strategies in a hard disk parts manufacturing company (P. Vrat and P. Yenradee) 11(9) 1991: 41-7

(A) conceptual model of manufacturing focus (C.C. Bozarth) 13(1) 1993: 81-92

Developing a manufacturing strategy within a capital-investment process – a case study (I. Persson) 11(3) 1991: 32-42

(The) different operations strategy planning process for service operations (C.P. McLaughlin, R.T. Pannesi and N. Kathuria) 11(3) 1991: 63-76

Effects of lot-splitting under various routing strategies (T.M. Hancock) 11(1) 1991: 68-74

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Exploring productivity accounting for management and strategy in manufacturing and services (J. Bicheno) 9(5) 1989: 56-68

(A) framework for formulating after-sales support strategy (C. Armistead and G. Clark) 11(3) 1991: 111-24

Global manufacturing strategies and practices: a study of two industries (S.T. Young, K.K. Kwong, C. Li and W. Fok) 12(9) 1992: 5-17

(A) hybrid push/pull production control system for multistage manufacturing processes (Y. Hirakawa, K. Hoshino and H. Katayama) 12(4) 1992: 69-81

Implementing manufacturing strategy: the human resource management contribution (N.J. Kinnie and R.V.W. Staughton) 11(9) 1991: 24-40

Is time a competitive weapon among manufacturing firms? (E.A. Tunc and J.N.D. Gupta) 13(3) 1993: 4-12

ITEC: an integrated manufacturing instructional exercise (W.L. Berry and V.A. Mabert) 12(6) 1992: 3-19

Job-shop operations reform: strategies for achieving queueless work flow (G. Bassett) 11(7) 1991: 55-71

Linking systems to strategy (W.L. Berry and T. Hill) 12(10) 1992: 3-15

(A) longitudinal study of the role of manufacturing technology in business strategy (J. Meredith and M. Vineyard) 13(12) 1993: 4-24

Manufacturing strategies and decentralization (C. Tunälv) 10(2) 1990: 107-19

Manufacturing strategy – plans and business performance (C. Tunälv) 12(3) 1992: 4-24

Manufacturing strategy development at Bibby Sterilin Ltd (J. Bodnar and A. Harrison) 11(3) 1991: 43-51

Manufacturing strategy in global markets: an operations management model (A. De Toni, R. Filippini and C. Forza) 12(4) 1992: 7-18

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Metamodelling a just-in-time Kanban system (M.C. Jothishankar and H.P. (Ben) Wang) 13(8) 1993: 18-36

(A) panel study of manufacturing strategies in Sweden (S.Å. Hörte, S. Börjesson and C. Tunälv) 11(3) 1991: 135-44

(The) perception of the strategic role of manufacturing amongst operations managers: an empirical study based on a newly industrialized economy (S-H. Hum and L-H. Leow) 12(11) 1992: 15-23

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(A) decision support system for job release in make-to-order companies (L. Hendry and B. Kingsman) 11(6) 1991: 6-16

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Demand management and production control in process industries (J.C. Fransoo) 12(7/8) 1992: 187-96

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(An) empirical study of delivery speed and reliability (R.B. Handfield and R.T. Pannesi) 12(2) 1992: 58-72

Generic manufacturing cell control (I.T. Franks, M. Loftus and N.T.A. Wood) 11(4) 1991: 20-32

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Implications of inbound lead time variability for just-in-time manufacturing (S.R. Swenseth and F.B. Buffa) 11(7) 1991: 37-48

(The) importance of user design in the adoption of new information technologies: the example of production and inventory control systems (PICS) (S. Newell, J. Swan and P. Clark) 13(2) 1993: 4-22

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(A) manufacturing cost model for computer-integrated manufacturing systems (D.G. Dhavale) 10(8) 1990: 5-18

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Getting the message across? Supplier quality improvement programmes: some issues in practice (L.F. Baxter, N. Ferguson, D.K. Macbeth and G.C. Neil) 9(5) 1989: 69-76

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Advanced manufacture and services: common issues – common approaches (D.K. Macbeth and G. Southern) (special issue) 9(5) 1989: 5-14

Advanced manufacture and services: common issues – common approaches (edited by D.K. Macbeth and G. Southern) (special issue) 9(5) 1989: 1-87

Application of analytical hierarchy process in operations management (F.Y. Partovi, J. Burton and A. Banerjee) 10(3) 1990: 5-19

Characteristics of periodicals for potential authors and readers in production and operations management (A. Ansari, D. Lockwood and B. Modarress) 12(6) 1992: 56-65

CIM and the integration of users, vendors and educators (D. Rhodes) 9(2) 1989: 27-37

Competitive edge through operations management (edited by D. Bennett) (special issue) 12(4) 1992: 1-107

Computer models for operations management (O.P. Hall Jr) (book review by R. Wild) 11(2) 1991: 71

Curriculum development for food production operations teaching for the hospitality industry: a systems framework (J. Cousins and D. Foskett) 9(5) 1989: 77-87

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Development of internal audit and cycle-counting procedures for reducing inventory miscounts (S. Kumar and S. Arora) 12(3) 1992: 61-70

(The) different operations strategy planning process for service operations (C.P. McLaughlin, R.T. Pannesi and N. Kathuria) 11(3) 1991: 63-76

(The) diffusion of innovation within multi-unit firms (D.A. Johnston and M.R. Leenders) 10(5) 1990: 15-24

Exploring productivity accounting for management and strategy in manufacturing and services (J. Bicheno) 9(5) 1989: 56-68

International handbook of production and operations management (edited by Ray Wild) (book review by S. Wood) 10(1) 1990: 78

Introduction to operations management (C.V.J. Waters) (book review by R. Wild) 11(10) 1991: 69

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(The) management of operations – a conceptual analysis (J.R. Meredith) (book review by R. Wild) 12(9) 1992: 79

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Operations management – strategy and analysis (2nd ed.) (L.J. Krajewski and L.B. Ritzman) (book review by R. Wild) 11(1) 1991: 76

(The) operations management challenge in the delivery of complex human services (J. Harvey) 12(4) 1992: 100-7

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Operations management techniques in intermittent and repetitive manufacturing: a conceptual framework (A. De Toni and R. Panizzolo) 13(5) 1993: 12-32

Organizational structure considerations in the next decade: implications for operations management (Y. Kathawala and B.P. Lingaraj) 10(8) 1990: 53-60

Participative business modelling to support strategic decision making in operations – a case study (H. Akkerman) 13(10) 1993: 34-48

(The) perception of the strategic role of manufacturing among operations managers: an empirical study based on a newly industrialized economy (S-H. Hum and L-H. Leow) 12(11) 1992: 15-23

Practical operations management (M. Hayes and A. Tomes) (book review by R. Wild) 9(4) 1989: 83

Preventive maintenance in a multiple shift and high volume manufacturing operation (D. Osborne and S. Taj) 13(10) 1993: 76-83

Production and operations management (J. Heizer and B. Render) (book review by N. Slack) 9(7) 1989: 80

Production and operations management (N. Brieger and J. Comfort) (book review by R. Wild) 13(1) 1993: 94

Production and operations management (Fogarty, Hoffmann and Stonebreaker) (book review by R. Wild) 10(4) 1990: 73

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Rethinking integrated concept foundations: a just-in-time argument for linking production/operations and logistics management (R.A. Novack, L.M. Rinehart and S.A. Fawcett) 13(6) 1993: 31-43

Strategic management of operations (edited by C.A. Voss) (special issue) 11(3) 1991: 1-144

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DAGPUNAR, J.S., Technical Paper: On the Relationship between Constrained and Unconstrained Multi-item Replenishment Problems, No. 4, 1989, pp. 77-81.

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DHAVALE, D.G., A Manufacturing Cost Model for Computer-integrated Manufacturing Systems, No. 8, 1990, pp. 5-18.

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FRANKS, I.T., LOFTUS, M. and WOOD, N.T.A., Generic Manufacturing Cell Control, No. 4, 1991, pp. 20-32.

FRANSOO, J.C., Demand Management and Production Control in Process Industries, No. 7/8 (Special Issue), 1992, pp. 187-96.

FRIZELLE, G.D.M., Deriving a Methodology for Implementing CAPM Systems, No. 7, 1991, pp. 6-26.

FRY, T.D. and PHILIPOOM, P.R., A Despatching Rule to Allow Trade-offs between Inventory and Customer Satisfaction, No. 7, 1989, pp. 72-8.

GALLETLY, J.E., see FIEDLER, K.

GALLOWAY, R.L. and WHITE, G., The Internal Information Systems Function as a Service Operation, No. 4, 1989, pp. 19-27.

GAMBLE, J.D., see COLQUHOUN, G.J.

GARCIA-DIAZ, A., see DAS, B.

GARDINER, L.R., see GARDINER, S.C.

GARDINER, S.C., BLACKSTONE, J.H. Jr and GARDINER, L.R., Drum-Buffer-Rope and Buffer Management: Impact on Production Management Study and Practices, No. 6, 1993, pp. 68-78.

GARG, A. and WANG, H.-P. (BEN), On the Simulation Run Length: A Step towards Real Time Control in an FMS, No. 9, 1990, pp. 74-88.

GHOSH, B.K., Equipment Investment Decision Analysis in Cellular Manufacturing, No. 7, 1990, pp. 5-20.

GHOSH, B.K. and WABALICKIS, R.N., A Comparative Analysis for the Justification of Future Manufacturing Systems, No. 9, 1991, pp. 4-23.

GIACOMELLI, G.A., see LUXHOJ, J.T.

GLOBERSON, S. and MAGGARD, M.J., A Conceptual Model of Self-service, No. 4, 1991, pp. 33-43.

GOH, M. and HUM, S.H., Cost Bounds for Inventory Systems Approaching JIT, No. 8, 1991, pp. 59-63.

GOH, T.M., see DENG, C.C.

GOLDHAR, J.D., see LEI, D.

GOLHAR, D.Y., see BANERJEE, S.

GOYAL, S.K., see DAS, C.

GOYAL, S.K., see GUNASEKARAN, A.

GOYAL, S.K. and DESHMUKH, S.G., A Critique of the Literature on Just-in-time Manufacturing, No. 1, 1992, pp. 18-28.

GOYAL, S.K. and GUNASEKARAN, A., Technical Paper: Effect of Dynamic Process Quality Control on the Economics of Production, No. 7, 1990, pp. 69-79.

GOYAL, S.K. and SINGHAL, S., Technical Paper Response: Determination of Manufacturing Cycle Time in Multi-stage Production Systems, No. 3, 1989, pp. 60-63.

GOYAL, S.K., GUNASEKARAN, A., MARTIKAINEN, T. and YLI-OLLI, P., Determining Economic Batch Sizes for Multiple Items in a Multilevel Manufacturing System, No. 12, 1993, pp. 79-93.

GREGORY, M.J., see PLATTS, K.W.

GUNASEKARAN, A., see GOYAL, S.K.

GUNASEKARAN, A., see LYU, J.

GUNASEKARAN, A., GOYAL, S.K., MARTIKAINEN, T. and YLI-OLLI, P., Modelling the Turnover Rate of a Production System as a Performance Indicator, No. 6, 1992, pp. 44-55.

GUPTA, J.N.D., see TUNC, E.A.

GUPTA, Y.P., see SOMERS, T.M.

GUPTA, Y.P., A Feasibility Study of JIT Purchasing Implementation in a Manufacturing Facility, No. 1, 1990, pp. 31-41.

GUPTA, Y.P. and KEUNG, Y., A Review of Multi-stage Lot-sizing Models, No. 9, 1990, pp. 57-73.

GUPTA, Y.P. and YAKIMCHUK, M.D., Impact of Advanced Manufacturing Technology on Industrial Relations: A Comparative Study, No. 3, 1989, pp. 5-14.

GUPTA, Y.P., LONIAL, S.C. and MANGOLD, W.G., An Examination of the Relationship between Manufacturing Strategy and Marketing Objectives, No. 10, 1991, pp. 33-43.

HADJINICOLA, G.C., see KUMAR, K.R.

HAILEY, W.A., RYAN, E.J. Jr and WOODRUFF, C.K., Tracking the Personal Values and Goal Commitment of Production and Quality Control Managers, No. 2, 1991, pp. 41-8.

HAMMESFAHR, R.D.J., POPE, J.A. and ARDALAN, A., Strategic Planning for Production Capacity, No. 5, 1993, pp. 41-53.

HANCOCK, T.M., Effects of Lot-splitting under Various Routing Strategies, No. 1, 1991, pp. 68-74.

HANDFIELD, R.B. and PANNESI, R.T., An Empirical Study of Delivery Speed and Reliability, No. 2, 1992, pp. 58-72.

HANNA, M., see NEWMAN, W.R.

HARBER, D., SAMSON, D.A., SOHAL, A.S. and WIRTH, A., Just-in-time: The Issue of Implementation, No. 1, 1990, pp. 21-30.

HARRISON, A., see BILLESBACH, T.

HARRISON, A., see BODNAR, J.

HARRISON, A. and VOSS, C., Issues in Setting up JIT Supply, No. 2 (Special Issue), 1990, pp. 84-93.

HARVEY, J., Designing Efficient and Manageable Public Professional Service Processes, No. 1, 1989, pp. 35-44.

HARVEY, J., Operations Management in Professional Service Organizations: A Typology, No. 4, 1990, pp. 5-15.

HARVEY, J., The Operations Management Challenge in the Delivery of Complex Human Services, No. 4 (Special Issue), 1992, pp. 100-07.

HASLAM, C., see WILLIAMS, K.

HASSARD, J., see BENNETT, D.

HENDRY, L. and KINGSMAN, B., A Decision Support System for Job Release in Make-to-order Companies, No. 6, 1991, pp. 6-16.

HENDRY, L.C., COPP: A Decision Support System for Managing Customer Enquiries, No. 11, 1992, pp. 53-64.

HENNIGAN, J.K., see DAS, B.

HILL, A.V., see ARDISHVILI, A.

HILL, M., see BOER, H.

HILL, T., see BERRY, W.L.

HILL, T. and CHAMBERS, S., Flexibility – A Manufacturing Conundrum, No. 2, 1991, pp. 5-13.

HIRAKAWA, Y., HOSHINO, K. and KATAYAMA, H., A Hybrid Push/Pull Production Control System for Multistage Manufacturing Processes, No. 4 (Special Issue), 1992, pp. 69-81.

HO, C-F., see CHYR, F.

HO, C-j., Evaluating Lot-sizing Performance in Multi-level MRP Systems: A Comparative Analysis of Multiple Performance Measures, No. 11, 1993, pp. 52-79.

HO, C-j., NARASIMHAN, R., MELNYK, S.A. and CARTER, P.L., Research Framework for Investigating the Effectiveness of Dampening Procedures to Cope with MRP System Nervousness, No. 6, 1992, pp. 30-43.

HOLLINGSWORTH, J., see BADRI, M.A.

HÖRTE, S.Å., BÖRJESSON, S. and TUNÄLV, C., A Panel Study of Manufacturing Strategy in Sweden, No. 3 (Special Issue), 1991, pp. 135-44.

HOSHINO, K., see HIRAKAWA, Y.

HOUGH, C.L. Jr, see DAS, B.

HOWSON, T.G. and DALE, B.G., An Examination of the Purchasing Function in a Sales-oriented Company, No. 5, 1991, pp. 71-82.

HU, M., see BOOTH, D.E.

HUBBARD, E., see REPEDE, J.F.

HUELIN, A., see JONES, P.

HUGHES, D., see MAULL, R.

HUM, S.H., see GOH, M.

HUM, S.H., Industrial Progress and the Strategic Significance of JIT and TQC for Developing Countries, No. 5, 1991, pp. 39-46.

HUM, S-H. and LEOW, L-H., The Perception of the Strategic Role of Manufacturing among Operations Managers: An Empirical Study Based on a Newly Industrialized Economy, No. 11, 1992, pp. 15-23.

HUQ, F., see AFZULPURKAR, S.

HUSTON, C.R., see WILLIS, T.H.

HWANG, C.L., see LEE, Y.Y.

ICMELI, O., ERENGUC, S.S. and ZAPPE, C.J., Project Scheduling Problems: A Survey, No. 11, 1993, pp. 80-91.

IM, J.H. and LEE, S.M., Implementation of Just-in-time Systems in US Manufacturing Firms, No. 1, 1989, pp. 5-14.

INMAN, R.A., see BROWN, K.L.

INMAN, R.A. and MEHRA, S., Financial Justification of JIT Implementation, No. 4, 1993, pp. 32-39.

INSTONE, F.J. and DALE, B.G., A Case Study of the Typical Issues Involved in Quality Improvement, No. 1, 1989, pp. 15-26.

JACOBS, L.W., see BECHTOLD, S.E.

JEFFRIES, C.J., see REPEDE, J.F.

JENICKE, L., see PALANISWAMI, S.

JIMENEZ, J., MARTINEZ, A., NAVARRO, L., POLO, Y. and TOMAS, L., The Process of Implementing Industrial Robots in Spanish Industry, No. 5, 1992, pp. 43-56.

JOHANSSON, B., see ELLEGÅRD, K.

JOHANSSON, J., see NONÅS, K.

JOHANSSON, M.I., see ELLEGÅRD, K.

JOHN, E.G., SCHÄFER, H. and ROWLANDS, A.R., Computer-based Cell Formation Incorporating Process Sequence, No. 1, 1992, pp. 60-65.

JOHNSON, S.L. and OFFODILE, O.F., Human-Machine Function Allocation in Manufacturing Systems: A Review, No. 6, 1991, pp. 17-26.

JOHNSTON, D.A. and LEENDERS, M.R., The Diffusion of Innovation within Multi-unit Firms, No. 5, 1990, pp. 15-24.

JOHNSTON, R., The Customer as Employee, No. 5 (Special Issue), 1989, pp. 15-23.

JONES, C.K., see AL-FARAJ, T.N.

JONES, M.S. and RUSSELL, R.S., Multiple Performance Measures in the Selection of a Sequencing Rule, No. 8, 1990, pp. 29-41.

JONES, P. and HUELIN, A., Thinking about Catering Systems, No. 8, 1990, pp. 42-52.

JONSSON, D., see ELLEGÅRD, K.

JOTHISHANKAR, M.C. and WANG, H.P. (BEN), Metamodelling a Just-in-time Kanban System, No. 8, 1993, pp. 18-36.

K. JO MIN, see CHENG-KANG, CHEN.

KANG, B.S. and MARKLAND, R.E., Technical Paper: Solving the No-intermediate Storage Flowshop Scheduling Problem, No. 3, 1989, pp. 48-59.

KARLSSON, C., Knowledge and Material Flow in Future Industrial Networks, No. 7/8 (Special Issue), 1992, pp. 10-23.

KATAYAMA, H., see HIRAKAWA, Y.

KATHAWALA, Y. and ALLEN, W.R., Expert Systems and Job Shop Scheduling, No. 2, 1993, pp. 23-35.

KATHAWALA, Y. and LINGARAJ, B.P., Organizational Structure Considerations in the Next Decade: Implications for Operations Management, No. 8, 1990, pp. 53-60.

KATHURIA, N., see MCLAUGHLIN, C.P.

KELLER, A.Z., see SOHAL, A.S.

KEUNG, Y., see GUPTA, Y.P.

KHARBANDA, O.P. and STALLWORTHY, E.A., Management for Engineers, No. 6 (Monograph), 1990.

KHOUJA, M., see BOOTH, D.E.

KIM, G.C. and LEE, S.M., Impact of Computer Technology on the Implementation of Just-in-time Production Systems, No. 8, 1989, pp. 20-39.

KIM, G.C. and SCHNIEDERJANS, M.J., A Multiple Objective Model for a Just-in-time Manufacturing System Environment, No. 12, 1993, pp. 47-61.

KIM, J.S. and ARNOLD, P., Manufacturing Competence and Business Performance: A Framework and Empirical Analysis, No. 10, 1993, pp. 4-25.

KING, B.E. and PENLESKY, R.J., Impediments to Timely Delivery of News Products at an Industrial Products Firm, No. 10, 1992, pp. 56-65.

KINGSMAN, B., see HENDRY, L.

KINNIE, N.J. and STAUGHTON, R.V.W., Implementing Manufacturing Strategy: The Human Resource Management Contribution, No. 9, 1991, pp. 24-40.

KINNIE, N.J., STAUGHTON, R.V.W. and DAVIES, E.H., Changing Manufacturing Strategy: Some Approaches and Experiences, No. 7/8 (Special Issue), 1992, pp. 92-102.

KIRKWOOD, R., SMITH, S. and TRANFIELD, D., The Implementation Cube for Advanced Manufacturing Systems, No. 8, 1989, pp. 5-19.

KODALI, R., A Knowledge-based System for Selection of a Transportation Path in Real-time Control of FMS, No. 9, 1992, pp. 39-48.

KOLAY, M.K., Suppliers Asset Base – Appreciating or Depreciating?, No. 8, 1993, pp. 72-86.

KONIJNENDIJK, P. and WIJNGAARD, J., Co-makership in the Delivery of Packaging Materials, No. 3 (Special Issue), 1991, pp. 21-31.

KRABBENDAM, K., see BOER, H.

KRAMER, B.A., see LEE, Y.Y.

KRISTENSEN, P.S., Flying Prototypes: Production Departments' Direct Interaction with External Customers, No. 7/8 (Special Issue), 1992, pp. 197-212.

KUMAR, K.R. and HADJINICOLA, G.C., Cellular Manufacturing at Champion Irrigation Products, No. 9, 1993, pp. 54-62.

KUMAR, S. and ARORA, S., Development of Internal Audit and Cycle-counting Procedures for Reducing Inventory Miscounts, No. 3, 1992, pp. 61-70.

KUN-HUANG YEH and CHAO-HSIEN CHU, Adaptive Strategies for Coping with Product Variety Decisions, No. 8, 1991, pp. 35-47.

KURPAD, M., see AFZULPURKAR, S.

KWONG, K.K., see YOUNG, S.T.

LAFORGE, R.L., see SRIDHARAN, V.

LAMBRECHT, M. and SEGAERT, A., Buffer Stock Allocation in Serial and Assembly Type of Production Lines, No. 2 (Special Issue), 1990, pp. 47-61.

LASCELLES, D.M. and DALE, B.G., The UK Department of Trade and Industry National Quality Campaign: 1983 to January 1989, No. 6, Monograph, 1989.

LEE, C.Y., A Recent Development of the Integrated Manufacturing System: A Hybrid of MRP and JIT, No. 4, 1993, pp. 3-17.

LEE, C.Y., The Adoption of Japanese Manufacturing Management Techniques in Korean Manufacturing Industry, No. 1, 1992, pp. 66-81.

LEE, L.C., A Comparative Study of the Push and Pull Production Systems, No. 4, 1989, pp. 5-18.

LEE, R.J.V., Design Considerations of Automated Guided Vehicles in a Cellular Manufacturing Environment, No. 1, 1993, pp. 35-55.

LEE, S. (SAM), WANG, H.-P. (BEN) and CHU, CHAO-HSIEN, Controlling a Robotic Cell by Dynamic Rule Despatching – A Simulation Study, No. 4, 1990, pp. 51-64.

LEE, S.M., see IM, J.H.

LEE, S.M., see KIM, G.C.

LEE, T.S., FELLER, S.J. and ADAM, E.E. Jr, Applying Contemporary Forecasting and Computer Technology for Competitive Advantage in Service Operations, No. 5, 1992, pp. 28-42.

LEE, Y.Y., KRAMER, B.A. and HWANG, C.L., A Comparative Study of Three Lot-sizing Methods for the Case of Fuzzy Demand, No. 7, 1991, pp. 72-80.

LEENDERS, M.R., see JOHNSTON, D.A.

LEI, D. and GOLDHAR, J.D., Computer-integrated Manufacturing (CIM): Redefining the Manufacturing Firm into a Global Service Business, No. 10, 1991, pp. 5-18.

LEOW, L-H., see HUM, S-H.

LI, C., see YOUNG, S.T.

LIAO, C-J., A New Contingent Critical-ratio Technique, No. 6, 1992, pp. 66-74.

LIEB, M., see EBERS, M.

LIM, L.E.N., see ONG, N.S.

LIN, B., Quality Control Information Systems in Manufacturing: Considerations and Concerns for Management, No. 1, 1991, pp. 41-50.

LIN, T.M., see CHYR, F.

LINDBERG, P., Management of Uncertainty in AMT Implementation: The Case of FMS, No. 7/8 (Special Issue), 1992, pp. 57-75.

LINDBERG, P., Strategic Manufacturing Management: A Proactive Approach, No. 2 (Special Issue), 1990, pp. 94-106.

LINDBERG, P. and TRYGG, L., Manufacturing Strategy in the Value System, No. 3 (Special Issue), 1991, pp. 52-62.

LINDÉN, G., see NONÅS, K.

LINGARAJ, B.P., see KATHAWALA, Y.

LOCKWOOD, D., see ANSARI, A.

LOCKYER, K.G. and WYNNE, R.M., The Life Profile of Stock as a Control Measure, No. 1, 1989, pp. 57-66.

LOFTUS, M., see FRANKS, I.T.

LONIAL, S.C., see GUPTA, Y.P.

LUXHOJ, J.T., A Methodology for the Location of Facility Ingress/Egress Points, No. 5, 1991, pp. 6-21.

LUXHOJ, J.T. and GIACOMELLI, G.A., Comparison of Labour Standards for a Greenhouse Tomato Production System: A Case Study, No. 3, 1990, pp. 38-49.

LYTH, D.M., see DELENE, L.M.

LYU, J. and GUNASEKARAN, A., Developing a Visual Interactive Simulation Model for Flexible Manufacturing Systems, No. 6, 1993, pp. 59-67.

MABERT, V.A., see BERRY, W.L.

MACBETH, D.K., see BAXTER, L.F.

MACBETH, D.K. and SOUTHERN, G., Advanced Manufacture and Services: Common Issues – Common Approaches, No. 5 (Special Issue), 1989, pp. 5-14.

MACBETH, D.K. and SOUTHERN, G. (Eds), Advanced Manufacture and Services: Common Issues – Common Approaches, No. 5 (Special Issue), 1989.

MADY, M.T., The Effect of Type of Industry on Inventory Investments and Structure: The Egyptian Case, No. 6, 1991, pp. 55-65.

MADY, M.T., Measuring Productivity in Real Terms: A Suggested Unified Accounting System Based on a Model for Egyptian Industry, No. 9, 1992, pp. 49-58.

MAFFEI, M.J., see NEWMAN, W.R.

MAGGARD, M.J., see GLOBERSON, S.

MAHANTY, B., see MANDAL, P.

MAHMOUD, E. and PEGELS, C.C., An Approach for Selecting Times Series Forecasting Models, No. 3, 1990, pp. 50-60.

MANDAL, P. and MAHANTY, B., Decomposition of Demand and Optimization for a Perpetual Inventory System, No. 7, 1990, pp. 47-56.

MANGOLD, W.G., see GUPTA, Y.P.

MAPES, J., The Effect of Capacity Limitations on Safety Stock, No. 10, 1993, pp. 26-33.

MARKLAND, R.E., see KANG, B.S.

MARTIKAINEN, T., see GOYAL, S.K.

MARTIKAINEN, T., see GUNASEKARAN, A.

MARTINEZ, A., see JIMENEZ, J.

MARUCHECK, A. and McCLELLAND, M., Planning Capacity Utilization in an Assemble-to-order Environment, No. 9, 1992, pp. 18-38.

MASELLA, C., see AZZONE, G.

MATTA, K.F., A Goal-oriented Productivity Index for Manufacturing Systems, No. 4, 1989, pp. 66-76.

MAULL, R., HUGHES, D., CHILDE, S., WESTON, N., TRANFIELD, D. and SMITH, S., A Methodology for the Design and Implementation of Resilient CAPM Systems, No. 9, 1990, pp. 27-36.

McCALMAN, J. and BUCHANAN, D.A., High Performance Work Systems: The Need for Transition Management, No. 2 (Special Issue), 1990, pp. 10-25.

McCLELLAND, M., see MARUCHECK, A.

McCUTCHEON, D.M. and WOOD, A.R., Effects of Technical Experience on Robot Implementations, No. 7, 1989, pp. 5-16.

McLAUGHLIN, C.P., PANNESI, R.T. and KATHURIA, N., The Different Operations Strategy Planning Process for Service Operations, No. 3 (Special Issue), 1991, pp. 63-76.

MEDBO, L., see ELLEGÅRD, K.

MEDBO, L., see ENGSTRÖM, T.

MEHRA, S., see INMAN, R.A.

MELNYK, S.A., see HO, C-j.

MELOCHE, D., see SINGH, N.

MEREDITH, J., Theory Building through Conceptual Methods, No. 5, 1993, pp. 3-11.

MEREDITH, J. and VINEYARD, M., A Longitudinal Study of the Role of Manufacturing Technology in Business Strategy, No. 12, 1993, pp. 4-24.

MEREDITH, J.R., see SHAFER, S.M.

MIA, L., see CLARKE, B.

MIN, H., see SHIN, D.

MISTEREK, S.D.A., DOOLEY, K.J. and ANDERSON, J.C., Productivity as a Performance Measure, No. 1, 1992, pp. 29-45.

MODARRESS, B., see ANSARI, A.

MOHANTY, R.P., Simulating Availability in a Manufacturing Plant, No. 7, 1989, pp. 59-71.

MOHANTY, R.P. and SINGH, R., A Hierarchical Production-planning Approach for a Steel-manufacturing System, No. 5, 1992, pp. 69-78.

MOHANTY, R.P. and VENKATARAMAN, S., Use of the Analytic Hierarchy Process for Selecting Automated Manufacturing Systems, No. 8, 1993, pp. 45-57.

MORRIS, J.S., see DANGERFIELD, B.J.

MURALIDHAR, K., see SWENSETH, S.R.

NARASIMHAN, R., see HO, C-j.

NAVARRO, L., see JIMINEZ, J.

NEELY, A., Production Operations Management: Research Process and Content during the 1980s, No. 1, 1993, pp. 5-18.

NEELY, A. and WILSON, J., Measuring Product Goal Congruence: An Exploratory Case Study, No. 4 (Special Issue), 1992, pp. 45-52.

NEELY, A.D., Production Management: A Two-dimensional Function?, No. 7, 1991, pp. 49-54.

NEIL, G.C., see BAXTER, L.F.

NEW, C., World-class Manufacturing versus Strategic Trade-offs, No. 4 (Special Issue), 1992, pp. 19-31.

NEWELL, S., SWAN, J. and CLARK, P., The Importance of User Design in the Adoption of New Information Technologies: The Example of Production and Inventory Control Systems (PICS), No. 2, 1993, pp. 4-22.

NEWMAN, W.R., HANNA, M. and MAFFEI, M.J., Dealing with the Uncertainties of Manufacturing: Flexibility, Buffers and Integration, No. 1, 1993, pp. 19-34.

NICHOLSON, T.A.J., Strategy and the Shopfloor: A One-way Initiative?, No. 3 (Special Issue), 1991, pp. 8-20.

NONÅS, K., JOHANSSON, J. and LINDÉN, G., Work in Arc-welding Stations with High Technical Complexity, No. 2 (Special Issue), 1990, pp. 37-46.

NOVACK, R.A., RINEHART, L.M. and FAWCETT, S.A., Rethinking Integrated Concept Formations: A Just-in-time Argument for Linking Production/Operations and Logistics Management, No. 6, 1993, pp. 31-43.

OAKLAND, J.S. and SOHAL, A., The Education, Training and Careers of Production Managers in British Industry, No. 8, 1989, pp. 63-90.

OAKLAND, J.S. and WYNNE, R.M., Efficiency of UK Engineering Production Management Systems, Part I – The Research, No. 1, 1991, pp. 14-31.

OAKLAND, J.S. and WYNNE, R.M., Efficiency of UK Engineering Production Management Systems, Part II – A Methodology for Improvement, No. 2, 1991, pp. 14-26.

OFFODILE, O.F., see JOHNSON, S.L.

OFFODILE, O.F., Assignment Model Formulation of the Machine Cell Formation Problem in Cellular Manufacturing, No. 10, 1993, pp. 49-59.

OFFODILE, O.F. and ACAR, W., Comprehensive Situation Mapping for Robot Evaluation and Selection, No. 1, 1993, pp. 71-80.

O'KELLY, M.E.J., see BRENNAN, L.

OLIVER, N., Human Factors in the Implementation of Just-in-time Production, No. 4, 1990, pp. 32-40.

OLSSON, A., see RUBENOWITZ, S.

ONG, H.L., see DENG, C.C.

ONG, N.S., LIM, L.E.N. and YEO, K.T., Manufacturing Cost Modelling for Electrical Interconnections, No. 2, 1993, pp. 63-75.

OSBORNE, D. and TAJ, S., Preventive Maintenance in a Multiple Shift and High Volume Manufacturing Operation, No. 10, 1993, pp. 76-83.

PAL, S., see SAFAYENI, F.

PALANISWAMI, S. and JENICKE, L., A Knowledge-based Simulation System for Manufacturing Scheduling, No. 11, 1992, pp. 4-14.

PANIZZOLO, R., see DE TONI, A.

PANNESI, R.T., see HANDFIELD, R.B.

PANNESI, R.T., see McLAUGHLIN, C.P.

PANTUMSINCHAI, P., see STONEBRAKER, P.W.

PARTOVI, F.Y. and BURTON, J., Using the Analytic Hierarchy Process for ABC Analysis, No. 9, 1993, pp. 29-44.

PARTOVI, F.Y., BURTON, J. and BANERJEE, A., Application of Analytical Hierarchy Process in Operations Management, No. 3, 1990, pp. 5-19.

PECENKA, J.O., see RIFAI, A.K.

PEGELS, C.C., see MAHMOUD, E.

PEGELS, C.C., Integrating Functional Areas for Improved Productivity and Quality, No. 2, 1991, pp. 27-40.

PENDAKUR, R., see RANDHAWA, S.U.

PENLESKY, R.J., see KING, B.E.

PERSSON, I., Developing a Manufacturing Strategy within a Capital-investment Process – A Case Study, No. 3 (Special Issue), 1991, pp. 32-42.

PHILIPOOM, P.R., see FRY, J.D.

PIKE, R., SHARP, J. and PRICE, D., AMT Investment in the Larger UK Firm, No. 2 (Special Issue), 1989, pp. 13-26.

PLATTS, K.W., A Process Approach to Researching Manufacturing Strategy, No. 8, 1993, pp. 4-17.

PLATTS, K.W. and GREGORY, M.J., Manufacturing Audit in the Process of Strategy Formulation, No. 9, 1990, pp. 5-26.

POLO, Y., see JIMENEZ, J.

POPE, J.A., see HAMMESFAHR, R.D.J.

POPE, J.A. and WERMUS, M., The University in an MRP Framework: The Administration Perspective, No. 2, 1993, pp. 36-46.

PREMACHANDRA, I.M., A Goal-programming Model for Activity Crashing in Project Networks, No. 6, 1993, pp. 79-85.

PRICE, D., see PIKE, R.

PRICE, D., Control Engineering Concepts as a Guide to Improved Production Control: A Make-for-stock Case, No. 2 (Special Issue), 1989, pp. 45-57.

PRIMROSE, P.L., Selecting and Evaluating Cost-effective MRP and MRPII, No. 1, 1990, pp. 51-66.

PRIMROSE, P.L., The Value of Inventory Savings, No. 5, 1992, pp. 79-92.

PRUETT, J.M. and SCHARTNER, A., JOB: An Instructive Job Shop Scheduling Environment, No. 11, 1993, pp. 4-34.

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Development of Internal Audit and Cycle-counting Procedures for Reducing Inventory Miscounts, Kumar, S. and Arora, S., No. 3, 1992, pp. 61-70.

(The) Different Operations Strategy Planning Process for Service Operations, McLaughlin, C.P., Pannesi, R.T. and Kathuria, N., No. 3 (Special Issue), 1991, pp. 63-76.

Difficulties of Just-in-time Implementation: A Classification Scheme, Safayeni, F., Purdy, L., van Engelen, R. and Pal, S., No. 7, 1991, pp. 27-36.

(The) Diffusion of Innovation within Multi-unit Firms, Johnston, D.A. and Leenders, M.R., No. 5, 1990, pp. 15-24.

Drum-Buffer-Rope and Buffer Management: Impact on Production Management Study and Practices, Gardiner, S.C., Blackstone, J.H. Jr and Gardiner, L.R., No. 6, 1993, pp. 68-78.

DSSL II: A Powerful Tool for Modelling and Analysing Complex Systems, Chaharbaghi, K., No. 4, 1991, pp. 44-88.

(A) Dynamic Model for Continuous Improvement in the Management of Service Quality, Babbar, S., No. 2, 1992, pp. 38-48.

EDI Implementation in JIT and Non-JIT Manufacturing Firms: A Comparative Study, Banerjee, S. and Golhar, D.Y., No. 3, 1993, pp. 25-37.

(The) Education, Training and Careers of Production Managers in British Industry, Oakland, J.S. and Sohal, A., No. 8, 1989, pp. 63-90.

(The) Effect of Capacity Limitations on Safety Stock, Mapes, J., No. 10, 1993, pp. 26-33.

(The) Effect of Type of Industry on Inventory Investments and Structure: The Egyptian Case, Mady, M.T., No. 6, 1991, pp. 55-65.

Effects of Lot-splitting under Various Routing Strategies, Hancock, T.M., No. 1, 1991, pp. 68-74.

Effects of Technical Experience on Robot Implementations, McCutcheon, D.M. and Wood, A.R., No. 7, 1989, pp. 5-16.

Efficiency of UK Engineering Production Management Systems, Part I – The Research, Oakland, J.S. and Wynne, R.N., No. 1, 1991, pp. 14-31.

Efficiency of UK Engineering Production Management Systems, Part II – A Methodology for Improvement, Oakland, J.S. and Wynne, R.M., No. 2, 1991, pp. 14-26.

(An) Empirical Study of Delivery Speed and Reliability, Handfield, R.B. and Pannesi, R.T., No. 2, 1991, pp. 58-72.

(An) Empirically-based Simulation Study of Functional versus Cellular Layouts with Operations Overlapping, Shafer, S.M. and Meredith, J.R., No. 2, 1993, pp. 47-62.

Equipment Investment Decision Analysis in Cellular Manufacturing, Ghosh, B.K., No. 7, 1990, pp. 5-20.

Evaluating a Computerized Maintenance Management System, Raouf, A., Ali, Z. and Duffuaa, S.O., No. 3, 1993, pp. 38-48.

Evaluating Lot-sizing Performance in Multi-level MRP Systems: A Comparative Analysis of Multiple Performance Measures, Ho, C-j., No. 11, 1993, pp. 52-79.

Evaluation of Bank Branches by Means of Data Envelopment Analysis, Al-Faraj, T.N., Alidi, A.S. and Bu-Bshait, K.A., No. 9, 1993, pp. 45-52.

(An) Examination of an Engine Manufacturing Plant's Downtime and Production Standards, Somers, T.M. and Gupta, Y.P., No. 5, 1991, pp. 22-38.

(An) Examination of the Purchasing Function in a Sales-oriented Company, Howson, T.G. and Dale, B.G., No. 5, 1991, pp. 71-82.

(An) Examination of the Relationship between Manufacturing Strategy and Marketing Objectives, Gupta, Y.P., Lonial, S.C. and Mangold, W.G., No. 10, 1991, pp. 33-43.

(An) Examination of Resourcing Policies for the Multi-resource Problem, Dumond, E.J. and Dumond, J., No. 5, 1993, pp. 54-76.

Expert Advice for JIT Implementation, Fiedler, K., Galletly, J.E. and Bicheno, J., No. 6, 1993, pp. 23-30.

Expert Systems and Job Shop Scheduling, Kathawala, Y. and Allen, W.R., No. 2, 1993, pp. 23-35.

Exploring Productivity Accounting for Management and Strategy in Manufacturing and Services, Bicheno, J., No. 5 (Special Issue), 1989, pp. 56-68.

(An) Extension of the EOQ Production Model Based on Damage Costs, Chyr, F., Lin, T.M. and Ho, C-F., No. 5, 1990, pp. 71-6.

(A) Feasibility Study of JIT Purchasing Implementation in a Manufacturing Facility, Gupta, Y.P., No. 1, 1990, pp. 31-41.

Financial Factors in Plant Location Decisions: A Case Study in the Greek Metal Industry, Artikis, G.P., No. 8, 1993, pp. 58-71.

Financial Justification of JIT Implementation, Inman, R.A. and Mehra, S., No. 4, 1993, pp. 32-39.

(The) Flexibilities of Push and Pull, Slack, N. and Correa, H., No. 4 (Special Issue), 1992, pp. 82-92.

Flexibility – A Manufacturing Conundrum, Hill, T. and Chambers, S., No. 2, 1991, pp. 5-13.

Flexible Production in the Chemical Industry – A Question of Competence, Thilander, M., No. 7/8 (Special Issue), 1992, pp. 147-67.

Flying Prototypes: Production Departments' Direct Interaction with External Customers, Kristensen, P.S., No. 7/8 (Special Issue), 1992, pp. 197-212.

FMS Implementation Management: Promise and Performance, Boer, H., Hill, M. and Krabbendam, K., No. 1, 1990, pp. 5-20.

Forecasting Systems for Production and Inventory Control, Fildes, R. and Beard, C., No. 5, 1992, pp. 4-27.

(A) Framework for Formulating After-sales Support Strategy, Armistead, C. and Clark, G., No. 3 (Special Issue), 1991, pp. 111-24.

Generic Manufacturing Cell Controls, Franks, I.T., Loftus, M. and Wood, N.T.A., No. 4, 1991, pp. 20-32.

Getting the Message across? Supplier Quality Improvement Programmes: Some Issues in Practice, Baxter, L.F., Ferguson, N., Macbeth, D.K. and Neil, G.C., No. 5 (Special Issue), 1989, pp. 69-76.

Global Manufacturing Strategies and Practices: A Study of Two Industries, Young, S.T., Kwong, K.K., Li, C. and Fok, W., No. 9, 1992, pp. 5-17.

(A) Goal-oriented Productivity Index for Manufacturing Systems, Matta, K.F., No. 4, 1989, pp. 66-76.

(A) Goal-programming Model for Activity Crashing in Project Networks, Premachandra, I.M., No. 6, 1993, pp. 79-85.

(A) Hierarchical Production-planning Approach for a Steel-manufacturing System, Mohanty, R.P. and Singh, R., No. 5, 1992, pp. 69-78.

High Performance Work Systems: The Need for Transition Management, McCalman, J. and Buchanan, D.A., No. 2 (Special Issue), 1990, pp. 10-25.

Human Factors in the Implementation of Just-in-time Production, Oliver, N., No. 4, 1990, pp. 32-40.

Human-Machine Function Allocation in Manufacturing Systems: A Review, Johnson, S.L. and Offodile, O.F., No. 6, 1991, pp. 17-26.

(A) Hybrid Push/Pull Production Control System for Multistage Manufacturing Processes, Hirakawa, Y., Hoshino, K. and Katayama, H., No. 4 (Special Issue), 1992, pp. 69-81.

Identifying Economic Order Quantities Using Genetic Algorithms, Stockton, D.J. and Quinn, L., No. 11, 1993, pp. 92-103.

Identifying, Measuring and Analysing Multidimensional Attributes for Design and Redesign Consideration, Wu, N.L., No. 4, 1990, pp. 65-72.

Impact of Advanced Manufacturing Technology on Industrial Relations: A Comparative Study, Gupta, Y.P. and Yakimchuk, M.D., No. 3, 1989, pp. 5-14.

Impact of Computer Technology on the Implementation of Just-in-time Production Systems, Kim, G.C. and Lee, S.M., No. 8, 1989, pp. 20-39.

(The) Impact of Just-in-time on Production System Performance: An Analytical Framework, Bartezzaghi, E. and Turco, F., No. 8, 1989, pp. 40-62.

(The) Impact of the Just-in-time Approach on Production System Performance: A Survey of Italian Industry, Bartezzaghi, E., Turco, F. and Spina, G., No. 1, 1992, pp. 5-17.

Impediments to Timely Delivery of New Products at an Industrial Products Firm, King, B.E. and Penlesky, R.J., No. 10, 1992, pp. 56-65.

(The) Implementation Cube for Advanced Manufacturing Systems, Kirkwood, R., Smith, S. and Tranfield, D., No. 8, 1989, pp. 5-19.

Implementation of Just-in-time Systems in US Manufacturing Firms, Im, J.H. and Lee, S.M., No. 1, 1989, pp. 5-14.

Implementing Industrial Engineering Policies: A Systems Management Perspective, Chung, K.B., No. 1, 1990, pp. 67-77.

Implementing Integrating Technologies: Developing Managerial Integration for CAD/CAM, Twigg, D., Voss, C.A. and Winch, G.M., No. 7/8 (Special Issue), 1992, pp. 76-91.

Implementing Manufacturing Strategy: The Human Resource Management Contribution, Kinnie, N.J. and Staughton, R.V.W., No. 9, 1991, pp. 24-40.

Implications of Inbound Lead Time Variability for Just-in-time Manufacturing, Swenseth, S.R. and Buffa, F.E., No. 7, 1991, pp. 37-48.

(The) Importance of User Design in the Adoption of New Information Technologies: The Example of Production and Inventory Control Systems (PICS), Newell, S., Swan, J. and Clark, P., No. 2, 1993, pp. 4-22.

Improvement of Labour Utilization in Shift Scheduling for Services with Implicit Optimal Modelling, Bechtold, S.E. and Jacobs, L.W., No. 2, 1991, pp. 54-70.

Improvements in Spanish Factories: Towards a JIT Philosophy?, Zantinga, J.T., No. 4, 1993, pp. 40-49.

Improving Forecasting Accuracy through Trading Day Adjustments, Stonebraker, P.W. and Pantumsinchai, P., No. 1, 1989, pp. 45-56.

Industrial Progress and the Strategic Significance of JIT and TQC for Developing Countries, Hum, S.H., No. 5, 1991, pp. 39-46.

Influence of Manufacturing Improvement Programmes on Performance, De Meyer, A. and Ferdows, K., No. 2 (Special Issue), 1990, pp. 120-31.

(An) Integrated Model for Demand-Output Management in Service Organizations: Implications for Future Research, Showalter, M.J. and White, D.J., No. 1, 1991, pp. 51-67.

Integrating Functional Areas for Improved Productivity and Quality, Pegels, C.C., No. 2, 1991, pp. 27-40.

Integrating MRPII and JIT: A Management Rather than a Technical Challenge, Sillince, J.A.A. and Sykes, G.M.H., No. 4, 1993, pp. 18-31.

Integration Is Not Synonymous with Flexibility, Crowe, T.J., No. 10, 1992, pp. 26-33.

(An) Integrative Model of Japanese Manufacturing Techniques, Chan, J.S., Samson, D.A. and Sohal, A.S., No. 9, 1990, pp. 37-56.

Intelligent Corporate Strategy beyond World-class Status, Chan, K.C., No. 9, 1993, pp. 18-28.

Interactive Services Operations: The Relationships among Information, Technology and Exchange Transactions on the Quality of the Customer-Contact Interface, Delene, L.M. and Lyth, D.M., No. 5 (Special Issue), 1989, pp. 24-32.

(The) Internal Information Systems Function as a Service Operation, Galloway, R.L. and White, G., No. 4, 1989, pp. 19-27.

(An) International Comparison of Factory Productivity, Schmenner, R.W. and Rho, Boo Ho, No. 4, 1990, pp. 16-31.

Inventory Policies with Freight Discounts and Disposals, Arcelus, F.J. and Rowcroft, J.E., No. 4, 1991, pp. 89-93.

Investment Justification of Flexible Manufacturing Technologies: Inferences from Field Research, Slagmulder, R. and Bruggeman, W., No. 7/8 (Special Issue), 1992, pp. 168-86.

Is Time a Competitive Weapon among Manufacturing Firms?, Tunc, E.A. and Gupta, J.N.D., No. 3, 1993, pp. 4-12.

Issues in Setting up JIT Supply, Harrison, A. and Voss, C., No. 2 (Special Issue), 1990, pp. 84-93.

ITEC: An Integrated Manufacturing Instructional Exercise, Berry, W.L. and Mabert, V.A., No. 6, 1992, pp. 3-19.

JIT Manufacturing: Industry Analysis and a Methodology for Implementation, Sohal, A.S., Ramsay, L. and Samson, D., No. 7 (Special Issue), 1993, pp. 22-56.

JIT Manufacturing Systems: Use and Application in Australia, Clarke, B. and Mia, L., No. 7 (Special Issue), 1993, pp. 69-82.

JOB: An Instructive Job Shop Scheduling Environment, Pruett, J.M. and Schartner, A., No. 11, 1993, pp. 4-34.

Job-shop Operations Reform: Strategies for Achieving Queueless Work Flow, Bassett, G., No. 7, 1991, pp. 55-71.

Just-in-time: A United States-United Kingdom Comparison, Billesbach, T., Harrison, A. and Croom-Morgan, S., No. 10, 1991, pp. 44-57.

Just-in-time: A The Issue of Implementation, Harber, D., Samson, D.A., Sohal, A.S. and Wirth, A., No. 1, 1990, pp. 21-30.

Knowledge and Material Flow in Future Industrial Networks, Karlsson, C., No. 7/8 (Special Issue), 1992, pp. 10-23.

(A) Knowledge-based Simulation System for Manufacturing Scheduling, Palaniswami, S. and Jenicke, L., No. 11, 1992, pp. 4-14.

(A) Knowledge-based Simulation System for Manufacturing Scheduling, Palaniswami, S. and Jenicke, L., No. 11, 1992, pp. 4-14.

(A) Knowledge-based System for Selection of a Transportation Path in Real-time Control of FMS, Kodali, R., No. 9, 1992, pp. 39-48.

Lessons from Nissan's British Suppliers, Carr, C.H. and Truesdale, T.A., No. 2, 1992, pp. 49-57.

(The) Life Profile of Stock as a Control Measure, Lockyer, K.G. and Wynne, R.M., No. 1, 1989, pp. 57-66.

Linking Systems to Strategy, Berry, W.L. and Hill, T., No. 10, 1992, pp. 3-15.

(A) Logistics-based Inventory Model for JIT Procurement, Ramasesh, R.V., No. 6, 1993, pp. 44-58.

(A) Longitudinal Study of the Role of Manufacturing Technology in Business Strategy, Meredith, J. and Vineyard, M., No. 12, 1993, pp. 4-24.

Management of Uncertainty in AMT Implementation: The Case of FMS, Lindberg, P., No. 7/8 (Special Issue), 1992, pp. 57-75.

Management for Engineers, Kharbanda, O.P. and Stallworthy, E.A., No. 6 (Monograph), 1990.

(The) Managerial Challenges of Integrated Manufacturing, Voss, C.A., No. 5 (Special Issue), 1989, pp. 33-8.

Managing the Introduction of Expert Systems, Candlin, D.B. and Wright, S., No. 1, 1992, pp. 46-59.

Manufacturing Audit in the Process of Strategy Formulation, Platts, K.W. and Gregory, M.J., No. 9, 1990, pp. 5-26.

Manufacturing Competence and Business Performance: A Framework and Empirical Analysis, Kim, J.S. and Arnold, P., No. 10, 1993, pp. 4-25.

(A) Manufacturing Cost Model for Computer-integrated Manufacturing Systems, Dhavale, D.G., No. 8, 1990, pp. 5-18.

Manufacturing Cost Modelling for Electrical Interconnections, Ong, N.S., Lim, L.E.N. and Yeo, K.T., No. 2, 1993, pp. 63-75.

Manufacturing Management Practices in Australia, Sohal, A.S. and Samson, D. (Eds), No. 7 (Special Issue), 1993.

Manufacturing Practices in the Commonwealth of Independent States, Ardishvili, A. and Hill, A.V., No. 10, 1993, pp. 60-75.

Manufacturing Strategies and Decentralization, Tunälv, C., No. 2 (Special Issue), 1990, pp. 107-19.

Manufacturing Strategy Development at Bibby Sterilin Ltd, Bodnar, J. and Harrison, A., No. 3 (Special Issue), 1991, pp. 43-51.

Manufacturing Strategy in Global Markets: An Operations Management Model, De Toni, A., Filippini, R. and Forza, C., No. 4 (Special Issue), 1992, pp. 7-18.

Manufacturing Strategy in the Value System, Lindberg, P. and Trygg, L., No. 3 (Special Issue), 1991, pp. 52-62.

Manufacturing Strategy – Plans and Business Performance, Tunälv, C., No. 3, 1992, pp. 4-24.

Market-driven Strategies and the Design of Flexible Production Systems: Evidence from the Electronics Industry, Bennett, D., Forrester, P. and Hassard, J., No. 2, 1992, pp. 24-40.

Market Orientedness of Improvement Programmes in Manufacturing: Results from Field Study Research, Draaijer, D.J., No. 7/8 (Special Issue), 1992, pp. 24-40.

(The) Measurement and Evaluation of White-collar Productivity, Ray, P.K. and Sahu, S., No. 4, 1989, pp. 28-47.

Measuring Product Goal Congruence: An Exploratory Case Study, Neely, A. and Wilson, J., No. 4 (Special Issue), 1992, pp. 45-52.

Measuring Productivity in Real Terms: A Suggested Unified Accounting System Based on a Model for Egyptian Industry, Mady, M.T., No. 9, 1992, pp. 49-58.

Measuring Strategic Control and Improvement in Manufacturing, Woodcock, D.J., No. 5 (Special Issue), 1989, pp. 47-55.

Measuring Success in AMT Implementation Using Customer-Supplier Interaction Criteria, Zairi, M., No. 10, 1992, pp. 34-55.

Metamodelling a Just-in-time Kanban System, Jothishankar, M.C. and Wang, H.P. (Ben), No. 8, 1993, pp. 18-36.

(A) Methodology for the Design and Implementation of Resilient CAPM Systems, Maull, R., Hughes, D., Childe, S., Weston, N., Tranfield, D. and Smith, S., No. 9, 1990, pp. 27-36.

(A) Methodology for the Location of Facility Ingress/Egress Points, Luxhoj, J.T., No. 5, 1991, pp. 6-21.

(A) Microcomputer-based Data Management and Capacity-planning System, Randhawa, S.U. and Pendakur, R., No. 5, 1990, pp. 52-61.

Microcomputer Simulation for Teaching Operations Management, Batley, T.W., No. 1, 1991, pp. 5-13.

Modelling and Analysis of Just-in-time Manufacturing Systems: A Review, Singh, N. and Brar, J.K., No. 2, 1992, pp. 3-14.

(A) Modelling Study of a Taxi Service Operation, Deng, C.C., Ong, H.L., Ang, B.W. and Goh, T.M., No. 11, 1992, pp. 65-78.

Modelling the Turnover Rate of a Production System as a Performance Indicator, Gunasekaran, A., Goyal, S.K., Martikainen, T. and Yli-Olli, P., No. 6, 1992, pp. 44-55.

Modular System Design and Control for Flexible Assembly, Rajput, S. and Bennett, D., No. 7, 1989, pp. 17-29.

(A) Monetary Incentive Plan for Machine-paced Operations, Das, B., Garcia-Diaz, A. and Hough, C.L. Jr, No. 7, 1989, pp. 30-44.

(The) Moving Median for Some Short-period, Fat-tailed, or Contaminated Time Series, Ren, Luh-Yu, No. 7, 1990, pp. 21-7.

Multicriteria Planning Model for Mental Health Services Delivery, Specht, R.H., No. 9, 1993, pp. 63-71.

(A) Multiple Objective Model for a Just-in-time Manufacturing System Environment, Kim, G.C. and Schniederjans, M.J., No. 12, 1993, pp. 47-61.

Multiple Performance Measures in the Selection of a Sequencing Rule, Jones, M.S. and Russell, R.S., No. 8, 1990, pp. 29-41.

(The) Need for a Systems View of Production Management, Sharp, J., No. 2 (Special Issue), 1989, pp. 5-12.

(A) New Contingent Critical-ratio Technique, Liao, C-J., No. 6, 1992, pp. 66-74.

(The) New Roles of Management in Plants with an Advanced CNC-Technology, Rubenowitz, S., Olsson, A. and Steen, B., No. 2 (Special Issue), 1990, pp. 26-36.

(The) Nexus between CAD-CAM and Quality, Buxey, G., No. 10, 1991, pp. 19-32.

(A) Note on "A Comparison of Heuristic Methods for Service Facility Locations", Thizy, J-M., No. 6, 1993, pp. 86-87.

On Knowing When to Switch from Quantitative to Judgemental Forecasts, Sanders, N.R. and Ritzman, L.P., No. 6, 1991, pp. 27-37.

On the Constrained Multi-item Single-period Inventory Problem, Raouf, A. and Ben-Daya, M., No. 11, 1993, pp. 112-120.

On the Simulation Run Length: A Step towards Real Time Control in an FMS, Garg, A. and Wang, H.-P. (Ben), No. 9, 1990, pp. 74-88.

On Using Buffer Stock to Combat Schedule Instability, Sridharan, V. and LaForge, R.L., No. 7, 1990, pp. 37-46.

Operating Levels in Product and Process Design, Zippeni, L. and De Toni, A., No. 6, 1991, pp. 38-54.

(The) Operations Management Challenge in the Delivery of Complex Human Services, Harvey, J., No. 4 (Special Issue), 1992, pp. 100-07.

Operations Management in Professional Service Organizations: A Typology, Harvey, J., No. 4, 1990, pp. 5-15.

Operations Management Techniques in Intermittent and Repetitive Manufacturing: A Conceptual Framework, De Toni, A. and Panizzolo, R., No. 5, 1993, pp. 12-32.

Optimal Base-period Data for Productivity Measurement, Rao, P.M., No. 8, 1993, pp. 37-44.

Optimal Selling Quantity and Purchase Price for Intermediary Firms, Cheng-Kang Chen and K. Jo Min, No. 10, 1991, pp. 64-8.

OPTimizing Production's Potential, Wheatley, M., No. 2 (Special Issue), 1989, pp. 38-44.

Optimum Order Cycles in MRP form a Geometric Progression, Shah, S., No. 5, 1991, pp. 83-7.

Organizational Structure Considerations in the Next Decade: Implications for Operations Management, Kathawala, Y. and Lingaraj, B.P., No. 8, 1990, pp. 53-60.

Organizing for Manufacturing Innovation: The Case of Flexible Manufacturing Systems, Boer, H. and Krabbendam, K., No. 7/8 (Special Issue), 1992, pp. 41-56.

(A) Panel Study of Manufacturing Strategy in Sweden, Hörte, S.Å., Börjesson, S. and Tunälv, C., No. 3 (Special Issue), 1991, pp. 135-44.

Participative Business Modelling to Support Strategic Decision Making in Operations – A Case Study, Akkermans, H., No. 10, 1993, pp. 34-48.

(A) PC-based Spreadsheet Support System for the Newsboy Inventory Control Problem, Al-Faraj, T.N., Al-Zayer, J.A. and Alidi, A.S., No. 10, 1991, pp. 58-63.

(The) Perception of the Strategic Role of Manufacturing among Operations Managers: An Empirical Study Based on a Newly Industrialized Economy, Hum, S-H. and Leow, L-H., No. 11, 1992, pp. 15-23.

Performance Measurement Revisited, Blenkinsop, S.A. and Burns, N., No. 10, 1992, pp. 16-25.

Personal, Unavoidable Delay, and Fatigue Allowances for Setting Performance Standards, Das, B., No. 5, 1990, pp. 62-70.

Planning Capacity Utilization in an Assemble-to-order Environment, Marucheck, A. and McClelland, M., No. 9, 1992, pp. 18-38.

Planning for Continual Improvement in a Just-in-time Environment, Swenseth, S.R., Muralidhar, K. and Wilson, R.L., No. 6, 1993, pp. 4-22.

Plant Location Decisions in the Greek Food Industry, Artikis, G.P., No. 5, 1991, pp. 57-70.

Preconditions for Long Cycle Time Assembly and Its Management – Some Findings, Engström, T. and Medbo, L., No. 7/8 (Special Issue), 1992, pp. 134-46.

Preventive Maintenance in a Multiple Shift and High Volume Manufacturing Operation, Osborne, D. and Taj, S., No. 10, 1993, pp. 76-83.

(A) Process Approach to Researching Manufacturing Strategy, Platts, K.W., No. 8, 1993, pp. 4-17.

(The) Process of Implementing Industrial Robots in Spanish Industry, Jimenez, J., Martinez, A., Navarro, L., Polo, Y. and Tomas, L., No. 5, 1992, pp. 43-56.

(The) Process of Manufacturing Strategy: Some Empirical Observations and Conclusions, Anderson, J.C., Schroeder, R.G. and Cleveland, G., No. 3 (Special Issue), 1991, pp. 86-110.

Product Structure Analysis for the Master Scheduling of Assemble-to-order Products, Berry, W.L., Tallon, W.J. and Boe, W.J., No. 11, 1992, pp. 24-41.

(A) Production-allocation Approach for International Manufacturing Strategy, Vos, G.C.J.M., No. 3 (Special Issue), 1991, pp. 125-34.

(A) Production Decision Model for Time-dependent Elastic Demand, Abdolrahimi, K., No. 9, 1992, pp. 59-77.

Production Management: A Two-dimensional Function?, Neely, A.D., No. 7, 1991, pp. 49-54.

Production Operations Management: Research Process and Content during the 1980s, Neely, A., No. 1, 1993, pp. 5-18.

Production Planning and Scheduling for Seasonal Demand, Buxey, G., No. 7 (Special Issue), 1993, pp. 4-21.

Production Processes and Organizational Policies, Wathen, S., No. 1, 1993, pp. 56-70.

Productivity Management in India: A Delphi Study, Ray, P.K. and Sahu, S., No. 5, 1990, pp. 25-51.

Productivity Management of Indirect Labour through Variable Work Measurement and Control, Wu, J.A. and Wu, N.L., No. 8, 1991, pp. 48-58.

Productivity as a Performance Measure, Misterek, S.D.A., Dooley, K.J. and Anderson, J.C., No. 1, 1992, pp. 29-45.

Project Scheduling Problems: A Survey, Icmeli, O., Erenguc, S.S. and Zappe, C.J., No. 11, 1993, pp. 80-91.

Quality Control Information Systems in Manufacturing: Considerations and Concerns for Management, Lin, B., No. 1, 1991, pp. 41-50.

Reasons for the Renewed Popularity of Autonomous Work Groups, Schuring, R., No. 4 (Special Issue), 1992, pp. 61-8.

(A) Recent Development of the Integrated Manufacturing System: A Hybrid of MRP and JIT, Lee, C.Y., No. 4, 1993, pp. 3-17.

Reflective Production in the Final Assembly of Motor Vehicles – An Emerging Swedish Challenge, Ellegård, K., Jonsson, D., Engström, T., Johansson, M.I., Medbo, L. and Johansson, B., No. 7/8 (Special Issue), 1992, pp. 117-33.

Relational Database Management Systems: A New Tool for Coding and Classification, Dangerfield, B.J. and Morris, J.S., No. 5, 1991, pp. 47-56.

Requirements for Smaller Companies in Integrated Manufacturing, Brennan, L., Finnan, F. and O'Kelly, M.E.J., No. 7, 1990, pp. 57-68.

Research Framework for Investigating the Effectiveness of Dampening Procedures to Cope with MRP System Nervousness, Ho, C-J., Narasimhan, R., Melnyk, S.A. and Carter, P.L., No. 6, 1992, pp. 30-43.

Responsibilities and Activities of Singaporean Production Managers, Tan, S-S., No. 3, 1990, pp. 20-7.

Rethinking Integrated Concept Foundations: A Just-in-time Argument for Linking Production/Operations and Logistics Management, Novack, R.A., Rinehart, L.M. and Fawcett, S.A., No. 6, 1993, pp. 31-43.

(A) Review of Literature Relating to JIT, Sohal, A.S., Keller, A.Z. and Fouad, R.H., No. 3, 1989, pp. 15-25.

(A) Review of Multi-stage Lot-sizing Models, Gupta, Y.P. and Keung, Y., No. 9, 1990, pp. 57-73.

(A) Robust Multivariate Statistical Procedure for Evaluation and Selection of Industrial Robots, Booth, D.E., Khouja, M. and Hu, M., No. 2, 1992, pp. 15-24.

(The) Role of Management in Production Units with Autonomous Work Groups, Rubenowitz, S., No. 7/8, (Special Issue), 1992, pp. 103-16.

Selecting and Evaluating Cost-effective MRP and MRPII, Primrose, P.L., No. 1, 1990, pp. 51-66.

Simulating Availability in a Manufacturing Plant, Mohanty, R.P., No. 7, 1989, pp. 59-71.

Simulating the Waiting-line Problem: A Spreadsheet Application, Al-Faraj, T.N., Alidi, A.S., Al-Zayer, J.A. and Jones, C.K., No. 2, 1991, pp. 49-53.

Simulation Aids JIT Assembly Line Manufacture: A Case Study, Chan, F.T.S. and Smith, A.M., No. 4, 1993, pp. 50-74.

(A) Simulation Approach to the Design of an Assembly Line: A Case Study, Rajamani, D. and Singh, N., No. 6, 1991, pp. 66-75.

(A) Simulation Model for Scheduling in the Emergency Room, Badri, M.A. and Hollingsworth, J., No. 3, 1993, pp. 13-24.

Situational Factors Affecting Performance-rating Ability, Das, B., Smith, D.R., Hennigan, J.K. and Yeager, R.J., No. 3, 1993, pp. 49-56.

Small Business and JIT: A Managerial Overview, Brown, K.L. and Inman, R.A., No. 3, 1993, pp. 57-66.

Sourcing/Contracting Strategy Selection, Ramsay, J. and Wilson, I., No. 8, 1990, pp. 19-28.

Strategic Manufacturing Management: A Proactive Approach, Lindberg, P., No. 2 (Special Issue), 1990, pp. 94-106.

Strategic Planning for Production Capacity, Hammesfahr, R.D.J., Pope, J.A. and Ardalan, A., No. 5, 1993, pp. 41-53.

Strategy and the Shopfloor: A One-way Initiative?, Nicholson, T.A.J., No. 3 (Special Issue), 1991, pp. 8-20.

Supplier Credit in the Economic Order Quantity Model, Wilson, J.M., No. 9, 1991, pp. 64-71.

Suppliers Asset Base – Appreciating or Depreciating?, Kolay, M.K., No. 8, 1993, pp. 72-86.

(A) Systems View of Production Management, Sharp, J. (Ed.), No. 2 (Special Issue), 1989.

Technical Paper: Effect of Dynamic Process Quality Control on the Economics of Production, Goyal, S.K. and Gunasekaran, A., No. 7, 1990, pp. 69-79.

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Technological Competence, Technology Aversion and Strategic Manufacturing Competitiveness, Wacker, J.G., No. 3, 1989, pp. 39-47.

Theory Building through Conceptual Methods, Meredith, J., No. 5, 1993, pp. 3-11.

Thinking about Catering Systems, Jones, P. and Huelin, A., No. 8, 1990, pp. 42-52.

Towards a Conceptual Framework of the Production Function, van Donk, D.P., de Vries, J. and van de Water, H., No. 1, 1991, pp. 32-40.

Towards a Framework for Aligning Implementation Change Strategies to a Situation-specific Context, Berger, A., No. 4 (Special Issue), 1992, pp. 32-44.

Towards a Unified Theory of Strategic Manufacturing Management, Sweeney, M.T., No. 8, 1991, pp. 6-23.

Tracking the Personal Values and Goal Commitment of Production and Quality Control Managers, Hailey, W.A., Ryan, E.J. Jr and Woodruff, C.K., No. 2, 1991, pp. 41-8.

(The) UK Department of Trade and Industry National Quality Campaign: 1983 to January 1989, Lascelles, D.M. and Dale, B.G., No. 6, Monograph, 1989.

Understanding Production Systems through Human Simulation, Wu, N.L., No. 1, 1989, pp. 27-34.

Understanding Technological Change: The Case of MRPII, Brown, A.D., No. 12, 1993, pp. 25-35.

Uniform Assembly Line Balancing with Stochastic Task Times in Just-in-time Manufacturing, Shin, D. and Min, H., No. 8, 1991, pp. 23-34.

(The) University in an MRP Framework: The Administration Perspective, Pope, J.A. and Wermus, M., No. 2, 1993, pp. 36-46.

(The) Usage of Computer-integrated Manufcturing Technology within Manufacturing Organizations in the North East of England, Walker, W.M., No. 7, 1989, pp. 45-58.

(The) Use of IDEFo to Link Design and Manufacturing in a CIM Environment, Colquhoun, G.J., Gamble, J.D. and Baines, R.W., No. 4, 1989, pp. 48-65.

(The) Use of Microcomputer-based Simulation Models in the Teaching of Operations Management, Smith, D.J., No. 5, 1990, pp. 5-14.

Use of the Analytic Hierarchy Process for Selecting Automated Manufacturing Systems, Mohanty, R.P. and Venkataraman, S., No. 8, 1993, pp. 45-57.

Using Simulation to Solve Design and Operational Problems, Chaharbaghi, K., No. 9, 1990, pp. 89-105.

Using the Analytic Hierarchy Process for ABC Analysis, Partovi, F.Y. and Burton, J., No. 9, 1993, pp. 29-44.

Value-adding Performance Measurement: A Time-based Approach, Barker, B., No. 5, 1993, pp. 33-40.

(The) Value of Inventory Savings, Primrose, P.L., No. 5, 1992, pp. 79-92.

Vehicle Routeing in Large Organizations: A Case Study, Sateesh, C. and Ray, P.K., No. 3, 1992, pp. 71-8.

Vendor Requirements and Evaluation in a Just-in-time Environment, Willis, T.H. and Huston, C.R., No. 4, 1990, pp. 41-50.

(A) Vendor's View of the JIT Manufacturing System, Das, C. and Goyal, S.K., No. 8, 1989, pp. 106-11.

What MAP Means to the Production Manager, Saunders, D., No. 2 (Special Issue), 1989, pp. 58-68.

Why Take the Stocks out? Britain vs Japan, Williams, K., Williams, J. and Haslam, C., No. 8, 1989, pp. 91-105.

Work in Arc-welding Stations with High Technical Complexity, Nonås, K., Johansson, J. and Lindén, G., No. 2 (Special Issue), 1990, pp. 37-46.

World-class Manufacturing versus Strategic Trade-offs, New, C., No. 4 (Special Issue), 1992, pp. 19-31.

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Attaran, M., OMIS – Operations Management Information System, by R. Wild, No. 9, 1992, p. 78.

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Fogarty, Hoffmann and Stonebreaker, Production and Operations Management, by R. Wild, No. 4, 1990, p. 73.

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Gonen, T., Engineering Economy for Engineering Managers – with Computer Applications, by R. Wild, No. 2, 1991, pp. 71-2.

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Harrison, F.L., Advanced Project Management: A Structured Approach (3rd ed.), by J.R. Turner, No. 8, 1993, p. 88.

Hayes, M. and Tomes, A., Practical Operations Management, by R. Wild, No. 4, 1989, p. 83.

Heizer, J. and Render, B., Production and Operations Management, by N. Slack, No. 7, 1989, p. 80.

Hollier, R.H. and Cooke, C., Stock Reduction in Manufacturing, by R. Wild, No. 4, 1993, p. 75.

Hutchins, D., Just in Time, by R. Wild, No. 1, 1989, pp. 74-5.

The International Society for Inventory Research, Bibliography of Inventory Literature, by R. Wild, No. 1, 1990, pp. 79-80.

Jain, R.K. and Triandis, H.C., Management of R&D Organizations – Managing the Unmanageable, by R. Wild, No. 11, 1992, p. 79.

Johns, D.T. and Harding, H.S., Operations Management – A Personal Skills Handbook, by R. Wild, No. 3, 1990, pp. 71.

Kezsbom, D.S., Schilling, D.L., Edward, K. and Edward, K.A., Dynamic Project Management – A Practical Guide for Managers and Engineers, by R. Wild, No. 7, 1990, p. 78.

Kniveton, B., The Psychology of Bargaining, by R. Wild, No. 1, 1990, p. 80.

Krajewski, L.J. and Ritzman, L.B., Operations Management – Strategy and Analysis (second edition), by R. Wild, No. 1, 1991, p. 76.

Landvater, D.V., World Class Production and Inventory Management, by R. Wild, No. 11, 1993, p. 122.

Lock, D. (Ed.), Handbook of Engineering Management, by R. Wild, No. 3, 1990, p. 72.

Lock, D., Project Management (5th ed.), by J.R. Turner, No. 8, 1993, p. 87-8.

Lotter, B., Manufacturing Assembly Handbook, by B. Griffiths, No. 4, 1990, pp. 75-6.

March, P.D.E., Contracting for Engineering and Construction Projects (3rd edition), by R. Wild, No. 1, 1990, p. 79.

Meredith, J.R., The Management of Operations – A Conceptual Emphasis (4th edition), by R. Wild, No. 9, 1992, p. 79.

Northcott, J. and Walling, A., The Input of Micro Electronics – Delusion, Benefits and Problems in British Industry, by R. Wild, No. 1, 1989, p. 73.

Perigord, M., Achieving Total Quality Management – A Program for Action, by H. Maylor, No. 3, 1993, pp. 67-8.

Prokopenko, J., Gerér la Productivité – Un Manuel Practique, by R. Wild, No. 7, 1990, pp. 78-9.

Schiock, E.M. and Lefevre, H.L., The Good and the Bad News about Quality, by R. Wild, No. 4, 1989, pp. 83-4.

Schonberger, R.J. and Knod, E.M. Jr, Operations Management – Serving the Customer, by R. Wild, No. 1, 1989, p. 74.

Scott, B. and Billing, B., Negotiating Skills and Engineering and Construction, by R. Wild, No. 7, 1990, pp. 79-80.

Shimbun, N.K. (Ed.), "Poka-Yoke" – Improving Product Quality by Preventing Defects, by P.H. Lowe, No. 4, 1990, pp. 73-4.

Silver, E.A. and Peterson, R., Decision Systems for Inventory and Management and Production Planning (second edition), by R. Wild, No. 10, 1991, p. 69.

Slack, N., The Manufacturing Advantage – Achieving Competitive Manufacturing Operations, by R. Wild, No. 1, 1992, pp. 82-3.

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Snead, C.S., Group Technology – Foundation for Competitive Manufacturing, by R. Wild, No. 8, 1990, p. 70.

Starr, M.K., Managing Production and Operations, by R. Wild, No. 4, 1989, p. 82.

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Tomes, A. and Hayes, M., Operations Management, by R. Wild, No. 11, 1993, p. 121.

Vollmann, T.E., Berry, W.L. and Whybark, D.C., Manufacturing Planning and Control Systems, by Bin Wu, No. 7, 1989, p. 79.

Waters, C.D.J., Inventory Control and Management, by R. Wild, No. 4, 1993, p. 75.

Waters, C.V.J., Introduction to Operations Management, by R. Wild, No. 10, 1991, p. 69.

Wild, R. (Ed.), International Handbook of Production and Operations Management, by S. Wood, No. 1, 1990, p. 78.

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